

COURSE DETAIL

INFECTIOUS DISEASES AND GLOBAL PUBLIC HEALTH

Country

Netherlands

Host Institution

Maastricht University – University College Maastricht

Program(s)

University College Maastricht

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Health Sciences Biological Sciences

UCEAP Course Number

121

UCEAP Course Suffix**UCEAP Official Title**

INFECTIOUS DISEASES AND GLOBAL PUBLIC HEALTH

UCEAP Transcript Title

INFECTIOUS DISEASES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course studies infectious diseases in a multidisciplinary way with a global public health emphasis. The first part introduces basic knowledge of the disease processes and the human immune responses. The second part focuses on three types of viruses that cause zoonotic infectious diseases in the modern era: retroviruses (i.e., HIV/AIDS), influenza viruses (i.e., H5N1, H1N1, H7N9), and coronaviruses (i.e., SARS, MERS, COVID-19). The focus of the discussion is on the biology of host-pathogen interactions, the basic epidemiology of infectious diseases, and possible countermeasures, including disease surveillance and vaccine development. The importance of social determinants of infectious diseases is also reviewed. The global impact of antimicrobial resistance (AMR) will be explored in the third part of the course. Factors affecting drug use, both on macro and micro levels, are discussed and analyzed. The course ends by highlighting the "One Health" concept (i.e., human-animal-environment interfaces) in responding to zoonotic diseases and AMR.

Language(s) of Instruction

English

Host Institution Course Number

SCI2042

Host Institution Course Title

INFECTIOUS DISEASES AND GLOBAL PUBLIC HEALTH

Host Institution Campus

Maastricht University

Host Institution Faculty

University College Maastricht

Host Institution Degree

Host Institution Department

Sciences

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